SPEC CPU®2017 Integer Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

$SPECspeed®2017\_int\_base = 11.6$
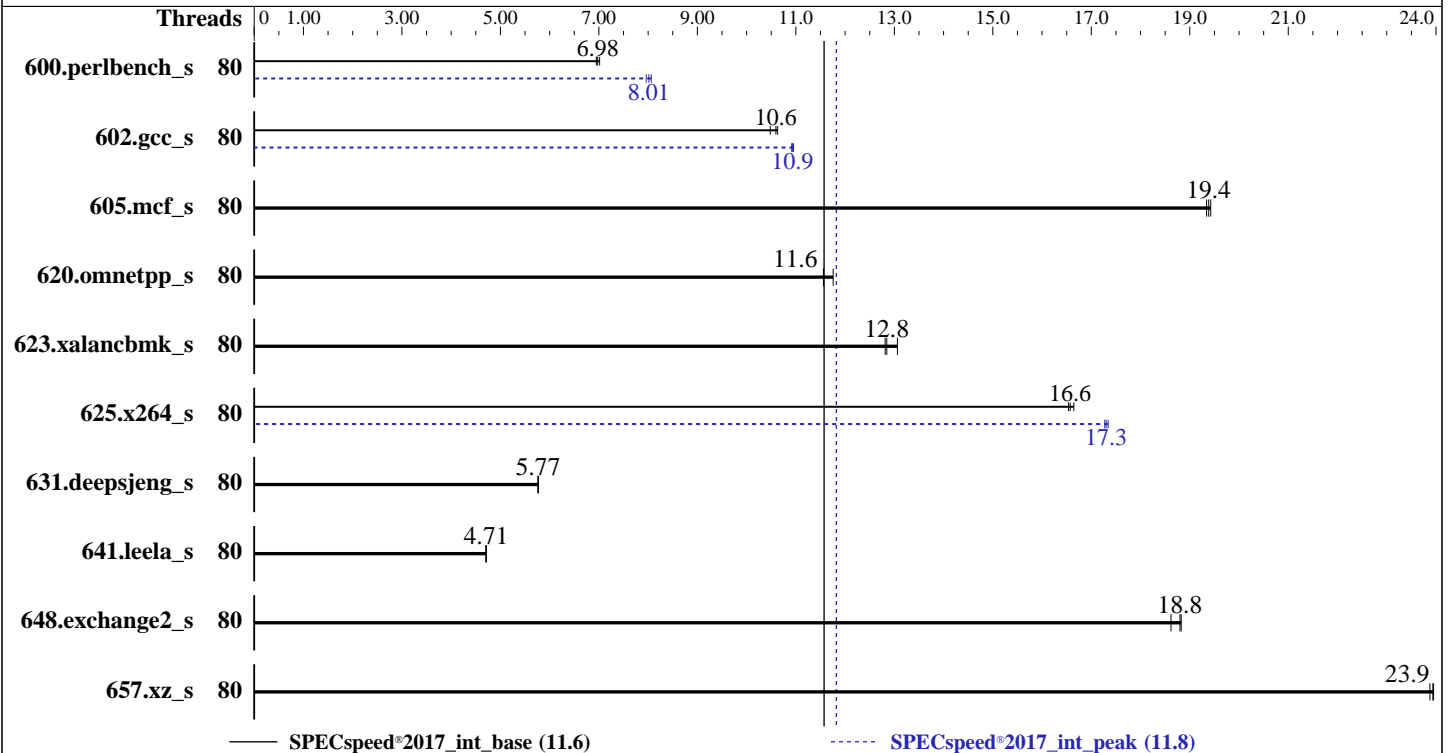
$SPECspeed®2017\_int\_peak = 11.8$

CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: May-2021

Hardware Availability: Jun-2021

Software Availability: Dec-2020

Threads scale 0 to 24.0

- 600.perlbench_s 80: base 6.98, peak 8.01
- 602.gcc_s 80: base 10.6, peak 10.9
- 605.mcf_s 80: 19.4
- 620.omnetpp_s 80: 11.6
- 623.xalancbmk_s 80: 12.8
- 625.x264_s 80: base 16.6, peak 17.3
- 631.deepsjeng_s 80: 5.77
- 641.leela_s 80: 4.71
- 648.exchange2_s 80: 18.8
- 657.xz_s 80: 23.9

SPECspeed®2017_int_base (11.6) — SPECspeed®2017_int_peak (11.8)

Hardware

CPU Name: Intel Xeon Platinum 8380

 Max MHz: 3400

 Nominal: 2300

Enabled: 80 cores, 2 chips

Orderable: 1, 2 chip(s)

Cache L1: 32 KB I + 48 KB D on chip per core

 L2: 1.25 MB I+D on chip per core

 L3: 60 MB I+D on chip per chip

 Other: None

Memory: 1 TB (16 x 64 GB 2Rx4 PC4-3200AA-R)

Storage: 1 x 800 GB SAS SSD, RAID 0

Other: None

Software

OS: Red Hat Enterprise Linux release 8.3 (Ootpa) Kernel 4.18.0-240.el8.x86_64

Compiler: C/C++: Version 2021.1 of Intel oneAPI DPC++/C++ Compiler Build 20201113 for Linux; Fortran: Version 2021.1 of Intel Fortran Compiler Classic Build 20201112 for Linux; C/C++: Version 2021.1 of Intel C/C++ Compiler Classic Build 20201112 for Linux

Parallel: Yes

Firmware: HPE BIOS Version I44 v1.42 05/16/2021 released Jun-2021

File System: xfs

System State: Run level 3 (multi-user)

Base Pointers: 64-bit

Peak Pointers: 64-bit

Other: jemalloc memory allocator V5.0.1

Power Management: BIOS and OS set to prefer performance at the cost of additional power usage

Standard Performance Evaluation Corporation (info@spec.org)

https://www.spec.org/

SPEC CPU®2017 Integer Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3	**Test Date:** May-2021
Test Sponsor: HPE	**Hardware Availability:** Jun-2021
Tested by: HPE	**Software Availability:** Dec-2020

Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	80	255	6.95	**254**	**6.98**	253	7.02	80	223	7.96	220	8.06	**221**	**8.01**
602.gcc_s	80	380	10.5	375	10.6	**376**	**10.6**	80	364	11.0	**364**	**10.9**	365	10.9
605.mcf_s	80	243	19.4	244	19.3	**244**	**19.4**	80	243	19.4	244	19.3	**244**	**19.4**
620.omnetpp_s	80	141	11.6	**141**	**11.6**	139	11.8	80	141	11.6	**141**	**11.6**	139	11.8
623.xalancbmk_s	80	**110**	**12.8**	111	12.8	108	13.1	80	**110**	**12.8**	111	12.8	108	13.1
625.x264_s	80	107	16.5	106	16.6	**106**	**16.6**	80	**102**	**17.3**	102	17.3	102	17.3
631.deepsjeng_s	80	**248**	**5.77**	248	5.77	249	5.76	80	**248**	**5.77**	248	5.77	249	5.76
641.leela_s	80	362	4.71	362	4.71	**362**	**4.71**	80	362	4.71	362	4.71	**362**	**4.71**
648.exchange2_s	80	156	18.8	**156**	**18.8**	158	18.6	80	156	18.8	**156**	**18.8**	158	18.6
657.xz_s	80	258	24.0	**258**	**23.9**	259	23.9	80	258	24.0	**258**	**23.9**	259	23.9
SPECspeed®2017_int_base =		**11.6**												
SPECspeed®2017_int_peak =		**11.8**												

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

```
Stack size set to unlimited using "ulimit -s unlimited"
Transparent Huge Pages enabled by default
Prior to runcpu invocation
Filesystem page cache synced and cleared with:
sync; echo 3>        /proc/sys/vm/drop_caches
```

Environment Variables Notes

```
Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/cpu2017/lib/intel64:/cpu2017/je5.0.1-64"
MALLOC_CONF = "retain:true"
OMP_STACKSIZE = "192M"
```

General Notes

```
 Binaries compiled on a system with 1x Intel Core i9-7980XE CPU + 64GB RAM
 memory using Redhat Enterprise Linux 8.0
NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)
is mitigated in the system as tested and documented.
Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1)
is mitigated in the system as tested and documented.
Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2)
is mitigated in the system as tested and documented.
 jemalloc, a general purpose malloc implementation
 built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5
```

(Continued on next page)

Standard Performance Evaluation Corporation (info@spec.org)

https://www.spec.org/

SPEC CPU®2017 Integer Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

$SPECspeed^{®}2017\_int\_base = 11.6$

$SPECspeed^{®}2017\_int\_peak = 11.8$

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: May-2021
Hardware Availability: Jun-2021
Software Availability: Dec-2020

General Notes (Continued)

```
   sources available from jemalloc.net or https://github.com/jemalloc/jemalloc/releases


  Submitted_by: "Bucek, James" <james.bucek@hpe.com>
  Submitted: Tue May 25 00:20:57 EDT 2021
  Submission: cpu2017-20210525-26745.sub


  Submitted_by: "Bhatnagar, Prateek" <prateek.bhatnagar@hpe.com>
  Submitted: Tue Jun  1 09:13:10 EDT 2021
  Submission: cpu2017-20210525-26745.sub
```

Platform Notes

```
BIOS Configuration
 Workload Profile set to General Peak Frequency Compute
 Intel Hyper-Threading set to Disabled
 Thermal Configuration set to Maximum Cooling
 Advanced Memory Protection set to Advanced ECC
 Memory Patrol Scrubbing set to Disabled
 Enhanced Processor Performance set to Enabled
  Enhanced Processor Performance Profile set to Aggressive
 Workload Profile set to Custom
  NUMA Group Size Optimization set to Flat
  DCU Stream Prefetcher set to Disabled
  Adjacent Sector Prefetch set to Disabled
  Minimum Process Idle Power Package C-State set to No Package State


 The system ROM used for this result contains Intel microcode version 0xd0002a0
 for the Intel Xeon Platinum 8380 processor.

  Sysinfo program /cpu2017/bin/sysinfo
  Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acafc64d
  running on localhost.localdomain Fri May 21 14:44:36 2021

  SUT (System Under Test) info as seen by some common utilities.
  For more information on this section, see
     https://www.spec.org/cpu2017/Docs/config.html#sysinfo

  From /proc/cpuinfo
     model name : Intel(R) Xeon(R) Platinum 8380 CPU @ 2.30GHz
        2  "physical id"s (chips)
        80 "processors"
     cores, siblings (Caution: counting these is hw and system dependent. The following
     excerpts from /proc/cpuinfo might not be reliable.  Use with caution.)
        cpu cores : 40
        siblings  : 40
        physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
```

(Continued on next page)

Standard Performance Evaluation Corporation (info@spec.org)

https://www.spec.org/

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3	**Test Date:** May-2021
Test Sponsor: HPE	**Hardware Availability:** Jun-2021
Tested by: HPE	**Software Availability:** Dec-2020

Platform Notes (Continued)

```
       25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
     physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
       25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

  From lscpu from util-linux 2.32.1:
       Architecture:        x86_64
       CPU op-mode(s):      32-bit, 64-bit
       Byte Order:          Little Endian
       CPU(s):              80
       On-line CPU(s) list: 0-79
       Thread(s) per core:  1
       Core(s) per socket:  40
       Socket(s):           2
       NUMA node(s):        2
       Vendor ID:           GenuineIntel
       CPU family:          6
       Model:               106
       Model name:          Intel(R) Xeon(R) Platinum 8380 CPU @ 2.30GHz
       Stepping:            6
       CPU MHz:             2694.298
       BogoMIPS:            4600.00
       Virtualization:      VT-x
       L1d cache:           48K
       L1i cache:           32K
       L2 cache:            1280K
       L3 cache:            61440K
       NUMA node0 CPU(s):   0-39
       NUMA node1 CPU(s):   40-79
       Flags:               fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
     pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp
     lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid
     aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16
     xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave
     avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 invpcid_single ssbd
     mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad
     fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid cqm rdt_a avx512f avx512dq
     rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw
     avx512vl xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total
     cqm_mbm_local split_lock_detect wbnoinvd dtherm ida arat pln pts avx512vbmi umip pku
     ospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme
     avx512_vpopcntdq la57 rdpid md_clear pconfig flush_l1d arch_capabilities

  /proc/cpuinfo cache data
     cache size : 61440 KB

  From numactl --hardware
  WARNING: a numactl 'node' might or might not correspond to a physical chip.
```

(Continued on next page)

SPEC CPU®2017 Integer Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: May-2021
Hardware Availability: Jun-2021
Software Availability: Dec-2020

Platform Notes (Continued)

```
    available: 2 nodes (0-1)
    node 0 cpus: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
    28 29 30 31 32 33 34 35 36 37 38 39
    node 0 size: 483508 MB
    node 0 free: 514511 MB
    node 1 cpus: 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
    65 66 67 68 69 70 71 72 73 74 75 76 77 78 79
    node 1 size: 485098 MB
    node 1 free: 515448 MB
    node distances:
    node   0   1
      0:  10  20
      1:  20  10


 From /proc/meminfo
    MemTotal:        1056521504 kB
    HugePages_Total:        0
    Hugepagesize:        2048 kB


 /sbin/tuned-adm active
     Current active profile: throughput-performance

 From /etc/*release* /etc/*version*
    os-release:
       NAME="Red Hat Enterprise Linux"
       VERSION="8.3 (Ootpa)"
       ID="rhel"
       ID_LIKE="fedora"
       VERSION_ID="8.3"
       PLATFORM_ID="platform:el8"
       PRETTY_NAME="Red Hat Enterprise Linux 8.3 (Ootpa)"
       ANSI_COLOR="0;31"
    redhat-release: Red Hat Enterprise Linux release 8.3 (Ootpa)
    system-release: Red Hat Enterprise Linux release 8.3 (Ootpa)
    system-release-cpe: cpe:/o:redhat:enterprise_linux:8.3:ga

 uname -a:
    Linux localhost.localdomain 4.18.0-240.el8.x86_64 #1 SMP Wed Sep 23 05:13:10 EDT 2020
    x86_64 x86_64 x86_64 GNU/Linux


 Kernel self-reported vulnerability status:

 CVE-2018-12207 (iTLB Multihit):                 Not affected
 CVE-2018-3620 (L1 Terminal Fault):              Not affected
 Microarchitectural Data Sampling:               Not affected
 CVE-2017-5754 (Meltdown):                       Not affected
 CVE-2018-3639 (Speculative Store Bypass):       Mitigation: Speculative Store
```

(Continued on next page)

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3	**Test Date:** May-2021
Test Sponsor: HPE	**Hardware Availability:** Jun-2021
Tested by: HPE	**Software Availability:** Dec-2020

Platform Notes (Continued)

```
                                                Bypass disabled via prctl and
                                                seccomp
  CVE-2017-5753 (Spectre variant 1):            Mitigation: usercopy/swapgs
                                                barriers and __user pointer
                                                sanitization
  CVE-2017-5715 (Spectre variant 2):            Mitigation: Enhanced IBRS, IBPB:
                                                conditional, RSB filling
  CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
  CVE-2019-11135 (TSX Asynchronous Abort):               Not affected

  run-level 3 May 21 14:41

  SPEC is set to: /cpu2017
     Filesystem      Type  Size  Used Avail Use% Mounted on
     /dev/sdb4       xfs   740G  280G  460G  38% /

  From /sys/devices/virtual/dmi/id
      Vendor:          HPE
      Product:         Synergy 480 Gen10 Plus
      Product Family:  Synergy
      Serial:          QH08NP000Q

  Additional information from dmidecode 3.2 follows.  WARNING: Use caution when you
  interpret this section. The 'dmidecode' program reads system data which is "intended to
  allow hardware to be accurately determined", but the intent may not be met, as there are
  frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.
    Memory:
      16x Micron 36ASF8G72PZ-3G2B2 64 GB 2 rank 3200
      16x UNKNOWN NOT AVAILABLE

  BIOS:
     BIOS Vendor:       HPE
     BIOS Version:      I44
     BIOS Date:         05/16/2021
     BIOS Revision:     1.42
     Firmware Revision: 2.40

  (End of data from sysinfo program)
```

Compiler Version Notes

```
==============================================================================
  C        | 600.perlbench_s(peak)
------------------------------------------------------------------------------
Intel(R) C Intel(R) 64 Compiler Classic for applications running on Intel(R)
  64, Version 2021.1 Build 20201112_000000
```

(Continued on next page)

SPEC CPU®2017 Integer Speed Result

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3	**Test Date:** May-2021
Test Sponsor: HPE	**Hardware Availability:** Jun-2021
Tested by: HPE	**Software Availability:** Dec-2020

Compiler Version Notes (Continued)

```
Copyright (C) 1985-2020 Intel Corporation.  All rights reserved.
--------------------------------------------------------------------------------


==============================================================================
C        | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak)
         | 625.x264_s(base, peak) 657.xz_s(base, peak)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
--------------------------------------------------------------------------------


==============================================================================
C        | 600.perlbench_s(peak)
------------------------------------------------------------------------------
Intel(R) C Intel(R) 64 Compiler Classic for applications running on Intel(R)
  64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation.  All rights reserved.
--------------------------------------------------------------------------------


==============================================================================
C        | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak)
         | 625.x264_s(base, peak) 657.xz_s(base, peak)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
--------------------------------------------------------------------------------


==============================================================================
C++      | 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak)
         | 631.deepsjeng_s(base, peak) 641.leela_s(base, peak)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
--------------------------------------------------------------------------------


==============================================================================
Fortran | 648.exchange2_s(base, peak)
------------------------------------------------------------------------------
Intel(R) Fortran Intel(R) 64 Compiler Classic for applications running on
  Intel(R) 64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation.  All rights reserved.
--------------------------------------------------------------------------------
```

https://www.spec.org/

SPEC CPU®2017 Integer Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise
(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: May-2021
Hardware Availability: Jun-2021
Software Availability: Dec-2020

Base Compiler Invocation

C benchmarks:
`icx`

C++ benchmarks:
`icpx`

Fortran benchmarks:
`ifort`

Base Portability Flags

600.perlbench_s: `-DSPEC_LP64 -DSPEC_LINUX_X64`
602.gcc_s: `-DSPEC_LP64`
605.mcf_s: `-DSPEC_LP64`
620.omnetpp_s: `-DSPEC_LP64`
623.xalancbmk_s: `-DSPEC_LP64 -DSPEC_LINUX`
625.x264_s: `-DSPEC_LP64`
631.deepsjeng_s: `-DSPEC_LP64`
641.leela_s: `-DSPEC_LP64`
648.exchange2_s: `-DSPEC_LP64`
657.xz_s: `-DSPEC_LP64`

Base Optimization Flags

C benchmarks:
```
-DSPEC_OPENMP -std=c11 -m64 -fiopenmp -Wl,-z,muldefs -xCORE-AVX512
-O3 -ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

C++ benchmarks:
```
-DSPEC_OPENMP -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin/
-lqkmalloc
```

Fortran benchmarks:
```
-m64 -xCORE-AVX512 -O3 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-mbranches-within-32B-boundaries
```

Standard Performance Evaluation Corporation (info@spec.org)
https://www.spec.org/

Hewlett Packard Enterprise

(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License:	3	**Test Date:**	May-2021
Test Sponsor:	HPE	**Hardware Availability:**	Jun-2021
Tested by:	HPE	**Software Availability:**	Dec-2020

Peak Compiler Invocation

C benchmarks (except as noted below):
`icx`

 600.perlbench_s: `icc`

C++ benchmarks:
`icpx`

Fortran benchmarks:
`ifort`

Peak Portability Flags

```
Same as Base Portability Flags
```

Peak Optimization Flags

C benchmarks:

 600.perlbench_s: `-Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)`
`-xCORE-AVX512 -ipo -O3 -no-prec-div`
`-qopt-mem-layout-trans=4 -fno-strict-overflow`
`-mbranches-within-32B-boundaries`
`-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc`

 602.gcc_s: `-m64 -std=c11 -Wl,-z,muldefs -fprofile-generate(pass 1)`
`-fprofile-use=default.profdata(pass 2) -xCORE-AVX512 -flto`
`-Ofast(pass 1) -O3 -ffast-math -qopt-mem-layout-trans=4`
`-mbranches-within-32B-boundaries`
`-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc`

 605.mcf_s: `basepeak = yes`

 625.x264_s: `-DSPEC_OPENMP -fiopenmp -std=c11 -m64 -Wl,-z,muldefs`
`-xCORE-AVX512 -flto -O3 -ffast-math`
`-qopt-mem-layout-trans=4 -fno-alias`
`-mbranches-within-32B-boundaries`
`-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc`

 657.xz_s: `basepeak = yes`

(Continued on next page)

Hewlett Packard Enterprise
(Test Sponsor: HPE)

Synergy 480 Gen10 Plus
(2.30 GHz, Intel Xeon Platinum 8380)

SPECspeed®2017_int_base = 11.6

SPECspeed®2017_int_peak = 11.8

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: May-2021
Hardware Availability: Jun-2021
Software Availability: Dec-2020

Peak Optimization Flags (Continued)

C++ benchmarks:

620.omnetpp_s: `basepeak = yes`

623.xalancbmk_s: `basepeak = yes`

631.deepsjeng_s: `basepeak = yes`

641.leela_s: `basepeak = yes`

Fortran benchmarks:

648.exchange2_s: `basepeak = yes`

The flags files that were used to format this result can be browsed at
`http://www.spec.org/cpu2017/flags/Intel-ic2021-official-linux64_revA.html`
`http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-V1.0-ICX-revC.html`

You can also download the XML flags sources by saving the following links:
`http://www.spec.org/cpu2017/flags/Intel-ic2021-official-linux64_revA.xml`
`http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-V1.0-ICX-revC.xml`

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU®2017 v1.1.8 on 2021-05-21 15:44:36-0400.
Report generated on 2021-08-11 14:57:07 by CPU2017 PDF formatter v6442.
Originally published on 2021-08-11.